

935.1PC.TXT

SEQUENCE LISTING

<110> Novartis AG, The Scripps Research Institute

<120> METHODS AND COMPOSITIONS ASSOCIATED WITH  
NOCICEPTIVE PAIN

<130> 4-32851A/SCR

<150> US 06/434,540

<151> 2002-12-18

<160> 13

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<210> 1

<211> 320

<212> PRT

<213> Mus Musculus

<400> 1

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20      25      30
Ala His Met Met Asn Leu Gly Ser Tyr Cys Leu Gly Leu Ile Pro Met
35      40      45
Thr Leu Leu Val Val Lys Ile Gln Pro Gly Met Ala Phe Asn Ser Thr
50      55      60
Gly Ile Ile Asn Gly Thr Ser Ser Thr His Glu Glu Arg Ile Asp Thr
65      70      75      80
Leu Asn Ser Phe Pro Ile Lys Ile Cys Met Ile Leu Val Phe Leu Ser
85      90      95
Ser Ile Phe Gly Tyr Cys Lys Glu Val Ile Gln Ile Phe Gln Gln Lys
100      105      110
Arg Asn Tyr Phe Leu Asp Tyr Asn Asn Ala Leu Glu Trp Val Ile Tyr
115      120      125
Thr Thr Ser Ile Ile Phe Val Leu Pro Leu Phe Leu Asn Ile Pro Ala
130      135      140
Tyr Met Gln Trp Gln Cys Gly Ala Ile Ala Ile Phe Tyr Trp Met
145      150      155      160
Asn Phe Leu Leu Tyr Leu Gln Arg Phe Glu Asn Cys Gly Ile Phe Ile
165      170      175
Val Met Leu Glu Val Ile Phe Lys Thr Leu Leu Arg Ser Thr Gly Val
180      185      190
Phe Ile Phe Leu Leu Leu Ala Phe Gly Leu Ser Phe Tyr Val Leu Leu
195      200      205
Asn Phe Gln Asp Ala Phe Ser Thr Pro Leu Leu Ser Leu Ile Gln Thr
210      215      220
Phe Ser Met Met Leu Gly Asp Ile Asn Tyr Arg Asp Ala Phe Leu Glu
225      230      235      240
Pro Leu Phe Arg Asn Glu Leu Ala Tyr Pro Val Leu Thr Phe Gly Gln
245      250      255
Leu Ile Ala Phe Thr Met Phe Val Pro Ile Val Leu Met Asn Leu Leu
260      265      270
Ile Gly Leu Ala Val Gly Asp Ile Ala Glu Val Gln Lys His Ala Ser
275      280      285
Leu Lys Arg Ile Ala Met Gln Val Glu Leu His Thr Asn Leu Glu Lys
290      295      300
Lys Leu Pro Leu Trp Tyr Leu Arg Lys Val Asp Gln Arg Ser Thr Ile
305      310      315      320

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<210> 2

<211> 319

<212> PRT

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<213> Homo sapiens

<400> 2

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20      25      30
Ala His Met Met Asn Leu Gly Ser Tyr Cys Leu Gly Leu Ile Pro Met
35      40      45
Thr Ile Leu Val Val Asn Ile Lys Pro Gly Met Ala Phe Asn Ser Thr
50      55      60
Gly Ile Ile Asn Glu Thr Ser Asp His Ser Glu Ile Leu Asp Thr Thr
65      70      75
Asn Ser Tyr Leu Ile Lys Thr Cys Met Ile Leu Val Phe Leu Ser Ser
85      90      95
Ile Phe Gly Tyr Cys Lys Glu Ala Gly Gln Ile Phe Gln Gln Lys Arg
100     105     110
Asn Tyr Phe Met Asp Ile Ser Asn Val Leu Glu Trp Ile Ile Tyr Thr
115     120     125
Thr Gly Ile Ile Phe Val Leu Pro Leu Phe Val Glu Ile Pro Ala His
130     135     140
Leu Gln Trp Gln Cys Gly Ala Ile Ala Val Tyr Phe Tyr Trp Met Asn
145     150     155
Phe Leu Leu Tyr Leu Gln Arg Phe Glu Asn Cys Gly Ile Phe Ile Val
165     170     175
Met Leu Glu Val Ile Leu Lys Thr Leu Leu Arg Ser Thr Val Val Phe
180     185     190
Ile Phe Leu Leu Leu Ala Phe Gly Leu Ser Phe Tyr Ile Leu Leu Asn
195     200     205
Leu Gln Asp Pro Phe Ser Ser Pro Leu Leu Ser Ile Ile Gln Thr Phe
210     215     220
Ser Met Met Leu Gly Asp Ile Asn Tyr Arg Glu Ser Phe Leu Glu Pro
225     230     235
Tyr Leu Arg Asn Glu Leu Ala His Pro Val Leu Ser Phe Ala Gln Leu
245     250     255
Val Ser Phe Thr Ile Phe Val Pro Ile Val Leu Met Asn Leu Leu Ile
260     265     270
Gly Leu Ala Val Gly Asp Ile Ala Glu Val Gln Lys His Ala Ser Leu
275     280     285
Lys Arg Ile Ala Met Gln Val Glu Leu His Thr Ser Leu Glu Lys Lys
290     295     300
Leu Pro Leu Trp Phe Leu Arg Lys Val Asp Gln Lys Ser Thr Ile
305     310     315

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<210> 3

<211> 352

<212> PRT

<213> Drosophila melanogaster

<400> 3

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20      25      30
Phe His Leu Ala Asn Leu Leu Ile Tyr Ser Ile Phe Leu Val Phe Val
35      40      45
Thr Ile Tyr Ser Ser Leu Met Met Asn Asn Ile Glu Leu Lys Ala Gly
50      55      60
Asp Asn Lys Thr Met Ser Gln Tyr Cys Asn Met Gly Trp Glu Gln Leu
65      70      75
Thr Met Asn Leu Ser Gln Asn Pro Ser Val Ala Ser Gln Ile Arg Leu
85      90      95
Asp Ser Cys Glu Arg Ile Asn Arg Thr Thr Ala Ile Leu Phe Cys
100     105     110
Ala Val Val Ile Val Val Tyr Ile Leu Leu Asn Ser Met Arg Glu Leu
115     120     125
Ile Gln Ile Tyr Gln Gln Lys Leu His Tyr Ile Leu Glu Thr Val Asn

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 Leu Ile Ser Trp Val Leu Tyr Ile Ser Ala Leu Val Met Val Thr Pro  
 145 150 155  
 Ala Phe Gln Pro Asp Gly Gly Ile Asn Thr Ile His Tyr Ser Ala Ala  
 165 170 175  
 Ser Ile Ala Val Phe Leu Ser Trp Phe Arg Leu Leu Leu Phe Leu Gln  
 180 185 190  
 Arg Phe Asp Gln Val Gly Ile Tyr Val Val Met Phe Leu Glu Ile Leu  
 195 200 205  
 Gln Thr Leu Ile Lys Val Leu Met Val Phe Ser Ile Leu Ile Ile Ala  
 210 215 220  
 Phe Gly Leu Ala Phe Tyr Ile Leu Leu Ser Lys Ile Ile Asp Pro Gln  
 225 230 235 240  
 Pro Asn His Leu Ser Phe Ser Asn Ile Pro Met Ser Leu Leu Arg Thr  
 245 250 255  
 Phe Ser Met Met Leu Gly Glu Leu Asp Phe Val Gly Thr Tyr Val Asn  
 260 265 270  
 Thr Tyr Tyr Arg Asp Gln Leu Lys Val Pro Met Thr Ser Phe Leu Ile  
 275 280 285  
 Leu Ser Val Phe Met Ile Leu Met Pro Ile Leu Leu Met Asn Leu Leu  
 290 295 300  
 Ile Gly Leu Ala Val Gly Asp Ile Glu Ser Val Arg Arg Asn Ala Gln  
 305 310 315 320  
 Leu Lys Arg Leu Ala Met Gln Val Val Leu His Thr Glu Leu Glu Arg  
 325 330 335  
 Lys Leu Pro His Val Trp Leu Gln Arg Val Asp Lys Met Glu Leu Ile  
 340 345 350

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 <211> 368  
 <212> PRT  
 <213> Drosophila melanogaster

<400> 4  
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 Ala Ser Trp Lys Ile Leu Leu Leu Leu Val Ala Phe Ile Val Cys Pro  
 35 40 45  
 Pro Val Trp Ile Gly Phe Thr Phe Pro Met Gly His Lys Phe Asn Lys  
 50 55 60  
 Val Pro Ile Ile Lys Phe Met Ser Tyr Leu Thr Ser His Ile Tyr Leu  
 65 70 75 80  
 Met Ile His Leu Ser Ile Val Gly Ile Thr Pro Ile Tyr Pro Val Leu  
 85 90 95  
 Arg Leu Ser Leu Val Pro Tyr Trp Tyr Glu Val Gly Leu Leu Ile Trp  
 100 105 110  
 Leu Ser Gly Leu Leu Leu Phe Glu Leu Thr Asn Pro Ser Asp Lys Ser  
 115 120 125  
 Gly Leu Gly Ser Ile Lys Val Leu Val Leu Leu Leu Gly Met Ala Gly  
 130 135 140  
 Val Gly Val His Val Ser Ala Phe Leu Phe Val Ser Lys Glu Tyr Trp  
 145 150 155 160  
 Pro Thr Leu Val Tyr Cys Arg Asn Gln Cys Phe Ala Leu Ala Phe Leu  
 165 170 175  
 Leu Ala Cys Val Gln Ile Leu Asp Phe Leu Ser Phe His Leu Phe  
 180 185 190  
 Gly Pro Trp Ala Ile Ile Ile Gly Asp Leu Leu Lys Asp Leu Ala Arg  
 195 200 205  
 Phe Leu Ala Val Leu Ala Ile Phe Val Phe Gly Phe Ser Met His Ile  
 210 215 220  
 Val Ala Leu Asn Gln Ser Phe Ala Asn Phe Ser Pro Glu Asp Leu Arg  
 225 230 235 240  
 Ser Phe Glu Lys Lys Asn Arg Asn Arg Gly Tyr Phe Ser Asp Val Arg  
 245 250 255  
 Met His Pro Ile Asn Ser Phe Glu Leu Phe Phe Ala Val Phe Gly

260 265 270  
Gln Thr Thr Thr Glu Gln Thr Gln Val Asp Lys Ile Lys Asn Val Ala  
275 280 285  
Thr Pro Thr Gln Pro Tyr Trp Val Glu Tyr Leu Phe Lys Ile Val Phe  
290 295 300  
Gly Ile Tyr Met Leu Val Ser Val Val Val Leu Ile Asn Leu Leu Ile  
305 310 315  
Ala Met Met Ser Asp Thr Tyr Gln Arg Ile Gln Val Val Leu Leu Asn  
325 330 335  
Ala Leu Leu Ser Asn Ser Thr Leu Phe Ile Asn Ser Tyr Phe Asn His  
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355 360 365

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<212> PRT  
<213> Caenorhabditis elegans

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Ser Phe Gly Lys Phe Val Ala Phe Ser Leu Phe Val Leu Ile Cys Pro  
35 40 45  
Pro Ala Trp Phe Tyr Phe Ser Leu Pro Leu Asp Ser Arg Ile Gly Arg  
50 55 60  
Ala Pro Ile Ile Lys Phe Val Cys His Ile Val Ser His Val Tyr Phe  
65 70 75 80  
Thr Ile Leu Leu Thr Ile Val Val Leu Asn Ile Thr His Lys Met Tyr  
85 90 95  
Glu Val Thr Ser Val Val Pro Asn Pro Val Glu Trp Leu Leu Leu Leu  
100 105 110  
Trp Leu Ser Gly Asn Leu Val Ser Glu Leu Ser Thr Val Gly Gly Gly  
115 120 125  
Ser Gly Leu Gly Ile Val Lys Val Leu Ile Leu Val Ser Ala Met  
130 135 140  
Ala Ile Ala Val His Val Leu Ala Phe Leu Leu Pro Ala Val Phe Leu  
145 150 155 160  
Thr His Leu Asp Asn Asp Glu Lys Leu His Phe Ala Arg Thr Met Leu  
165 170 175  
Tyr Leu Lys Asn Gln Leu Phe Ala Phe Ala Leu Leu Phe Ala Phe Val  
180 185 190  
Glu Tyr Leu Asp Phe Leu Thr Val His His Leu Phe Gly Pro Trp Ala  
195 200 205  
Ile Ile Ile Arg Asp Leu Met Tyr Asp Leu Ala Arg Phe Leu Val Ile  
210 215 220  
Leu Met Leu Phe Val Ala Gly Phe Thr Leu His Val Thr Ser Ile Phe  
225 230 235 240  
Gln Pro Ala Tyr Gln Pro Val Asp Glu Asp Ser Ala Glu Leu Met Arg  
245 250 255  
Leu Ala Ser Pro Ser Gln Thr Leu Glu Met Leu Phe Phe Ser Leu Phe  
260 265 270  
Gly Leu Val Glu Pro Asp Ser Met Pro Pro Leu His Leu Val Pro Asp  
275 280 285  
Phe Ala Lys Ile Ile Leu Lys Leu Leu Phe Gly Ile Tyr Met Met Val  
290 295 300  
Thr Leu Ile Val Leu Ile Asn Leu Leu Ile Ala Met Met Ser Asp Thr  
305 310 315 320  
Tyr Gln Arg Ile Gln Ala Gln Ser Asp Lys Glu Trp Lys Phe Gly Arg  
325 330 335  
Ala Ile Leu Ile Arg Gln Met Asn Lys Lys Ser Ala Thr Pro Ser Pro  
340 345 350  
Ile Asn Met Leu Thr Lys Leu Ile Ile Val Leu Arg Val  
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 <213> Caenorhabditis elegans

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 Met Tyr Tyr Phe Ala Leu Phe Met Tyr Leu Val Phe Ile Val Ser Leu  
 35 40 45  
 Thr Gln Tyr Val Arg His Thr Lys Ala Pro Tyr Asn Val Trp Asn Glu  
 50 55 60  
 Glu Ser Tyr Tyr Asp Ser Glu Tyr Phe Asp Glu Asn Glu Thr Cys Pro  
 65 70 75 80  
 Gln Ile Asn Thr Thr Lys Pro Asp Val Val Trp Lys Ile Ile Ile Gln  
 85 90 95  
 Thr Leu Ala Val Cys Gln Ile Leu Val Glu Cys Phe Gln Leu Phe Gln  
 100 105 110  
 Arg Lys Phe Ala Tyr Leu Val Asn Trp Glu Asn Trp Ile Asp Cys Phe  
 115 120 125  
 Ile Tyr Ser Thr Ala Leu Ile Thr Val Tyr Asp Phe Ser Glu Cys Ser  
 130 135 140  
 Ala Thr Ser Gly Val Arg Gln Asn Trp Gln Trp Ile Leu Ala Ala Leu  
 145 150 155 160  
 Cys Ile Phe Phe Gly Trp Ile Asn Leu Leu Phe Met Ile Arg Lys Met  
 165 170 175  
 Pro Arg Phe Gly Ile Phe Val Val Met Phe Val Asp Ile Val Lys Thr  
 180 185 190  
 Phe Phe Arg Phe Phe Pro Val Phe Val Leu Phe Ile Ile Ala Phe Ser  
 195 200 205  
 Ser Ser Phe Tyr Val Ile Leu Gln Asn Arg Pro Glu Phe Ser Thr Ile  
 210 215 220  
 Phe Met Ser Pro Leu Lys Thr Thr Val Met Met Ile Gly Glu Phe Glu  
 225 230 235 240  
 Phe Thr Gly Ile Phe His Gly Asp Glu Thr Thr His Ala Glu Lys Met  
 245 250 255  
 Phe Gly Pro Ala His Thr Ala Val Ala Cys Ala Leu Phe Phe Phe  
 260 265 270  
 Cys Ile Ile Met Thr Ile Leu Leu Met Asn Leu Leu Val Gly Leu Ala  
 275 280 285  
 Val Asp Asp Ile Lys Gly Val Gln Glu Lys Ala Glu Leu Lys Arg Leu  
 290 295 300  
 Ala Met Gln Val Asp Leu Val Leu Gln Ile Glu Ala Ser Leu His Phe  
 305 310 315 320  
 Phe Ile Gln Arg Thr Lys Lys Tyr Ala Thr Cys  
 325 330

<210> 7  
 <211> 333  
 <212> PRT  
 <213> Drosophila melanogaster

<400> 7  
 Leu Asn Thr Phe Val Asp Glu Gly Gln Lys Glu Ile Leu Glu His Pro  
 1 5 10 15  
 Leu Cys Ser Ser Phe Leu Tyr Ile Lys Trp Gly Lys Ile Arg Lys Tyr  
 20 25 30  
 Tyr Ile Gly Arg Leu Ile Phe Cys Phe Ser Phe Val Leu Phe Leu Thr  
 35 40 45  
 Leu Tyr Val Leu Thr Ala Leu Ala His Asn Cys Tyr Asn Gly Ser Lys  
 50 55 60  
 Asn Asp Asn Thr Thr Ile Pro Ala Gln Glu Leu Cys Gln Lys Gln Ser  
 65 70 75 80  
 Ile Leu Gly Asp Met Leu Arg Asn Asn Pro Phe Val Met Glu Met Gln  
 310 315 320  
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85 90 95

Trp Trp Val Leu Val Ala Ile Thr Ile Val Glu Ile Phe Arg Lys Leu

100 105 110

Tyr Gly Ile Thr Gly Tyr Ser Ser Phe Arg His Tyr Val Thr Gln Val

115 120 125

Glu Asn Ile Met Glu Trp Phe Val Ile Thr Ser Val Phe Val Ile Ser

130 135 140

Tyr Ile Tyr Thr Asn Lys Thr Tyr Thr Phe Gln Asn His Ile Gly Ala

145 150 155 160

Phe Ala Val Leu Leu Gly Trp Thr Asn Leu Met Leu Met Ile Gly Gln

165 170 175

Leu Pro Val Phe Asp Val Tyr Val Ala Met Tyr Thr Arg Val Gln Gly

180 185 190

Glu Phe Ala Lys Leu Phe Met Ala Tyr Ser Cys Met Leu Ile Gly Phe

195 200 205

Thr Ile Ser Phe Cys Val Ile Phe Pro Ser Ser Ser Phe Ala Asn

210 215 220

Pro Phe Met Gly Phe Ile Thr Val Leu Val Met Met Ile Gly Glu Gln

225 230 235 240

Asp Leu Ser Leu Leu Ile Asn Asp Pro Glu Gly Lys Asp Pro Pro Phe

245 250 255

Leu Leu Glu Val Ser Ala Gln Ile Thr Phe Val Leu Phe Leu Leu Phe

260 265 270

Val Thr Ile Ile Leu Met Asn Leu Leu Val Gly Ile Ala Val His Asp

275 280 285

Ile Gln Gly Leu Lys Lys Thr Ala Gly Leu Ser Lys Leu Val Arg Gln

290 295 300

Thr Lys Leu Ile Ser Tyr Ile Glu Ser Ala Leu Phe Asn Gly Tyr Leu

305 310 315 320

Pro Thr Trp Leu Arg Asn Leu Leu His Tyr Thr Ala Leu

325 330

<210> 8  
 <211> 314  
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 <213> Drosophila melanogaster

<400> 8

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20 25 30

Phe Leu Met Ser Leu Ala Tyr His Thr Leu Phe Val Ile Leu Phe Thr

35 40 45

Phe Tyr Val Ile Trp Val Tyr Val Arg Cys Cys Lys Lys Glu Glu Leu

50 55 60

Cys Val Ala Pro Gly Tyr Val Ser Thr Ile Gly Tyr Leu Val Ile Ile

65 70 75 80

Leu Asn Leu Ile Leu Leu Gly Lys Glu Val Phe Gln Met Ala His Gly

85 90 95

Leu Arg Gly Tyr Ala Lys Tyr Trp Glu Asn Trp Leu Gln Trp Thr Ile

100 105 110

Gly Thr Gly Val Leu Leu Cys Val Thr Pro Glu Thr Val Arg Thr Asp

115 120 125

Asp Leu Thr Ala Val Pro Val Trp Gln His His Val Ala Ala Ile Val

130 135 140

Ile Leu Leu Val Trp Leu Glu Leu Met Met Leu Val Gly Arg Phe Pro

145 150 155 160

Ile Phe Gly Val Tyr Val Gln Met Phe Thr Lys Val Ala Val Asn Phe

165 170 175

Ala Lys Phe Leu Leu Ala Tyr Ile Cys Leu Leu Val Ala Phe Gly Leu

180 185 190

Ser Phe Ala Val Leu Phe Asn Asp Tyr Pro Ala Phe Glu Asn Ile Thr

195 200 205

Trp Ser Phe Leu Lys Ser Ile Thr Met Met Ser Gly Leu Glu Phe

210 215 220

Glu Asp Ile Phe Tyr Gly Asp Tyr Ala Val Lys Phe Pro Val Thr Ala

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225 His Ile Ile Phe Leu Ser Phe Val Leu Leu Val Thr Val Ile Leu Thr  
 235 245 250 255  
 Asn Leu Met Val Gly Leu Ala Val Ser Asp Ile Gln Gly Leu Gln Val  
 260 265 270  
 Ser Ala Thr Leu Asp Arg Leu Val Arg Gln Ala Glu Leu Val Ser Arg  
 275 280 285  
 Leu Glu Ser Leu Phe Phe Ser Arg Leu Leu Arg Ser Ala Pro Thr Asn  
 290 295 300  
 Leu Ile Gln Leu Cys Lys Arg Ser Ala Leu  
 305 310

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20

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21

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36

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agccacccgg	acttttag					3378